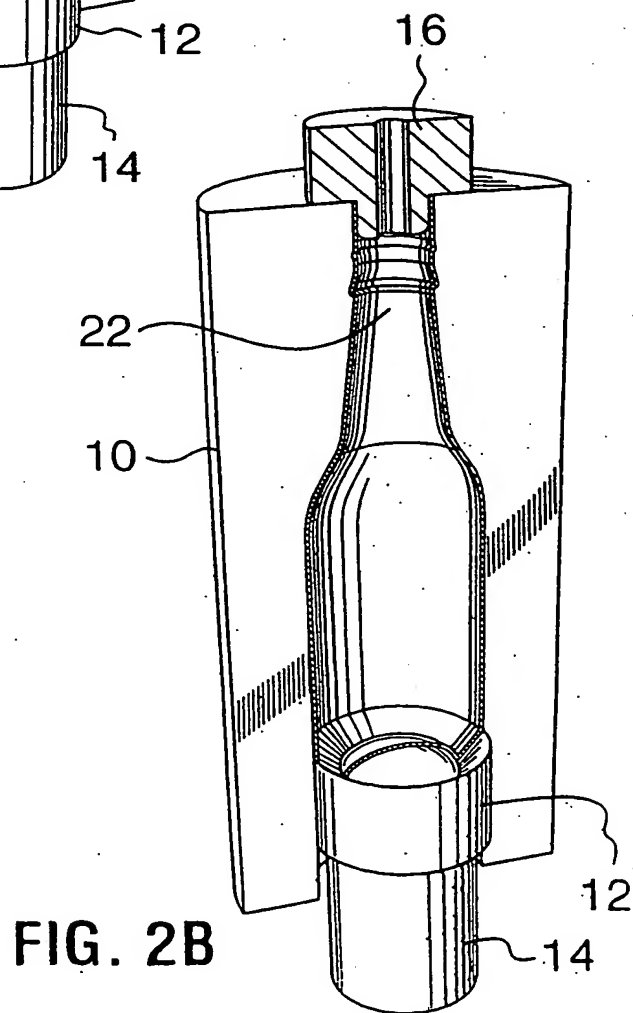
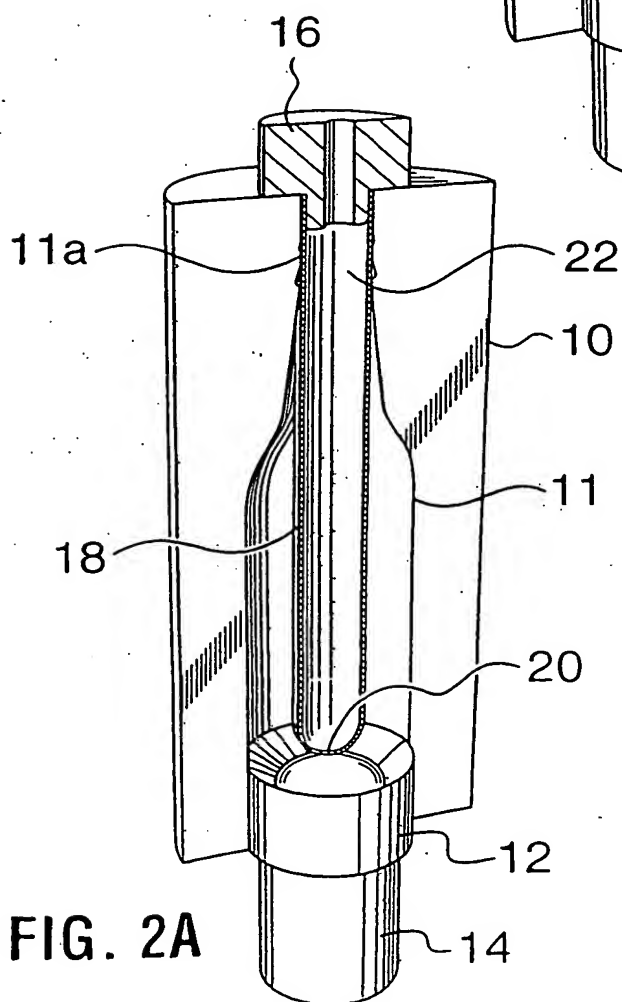
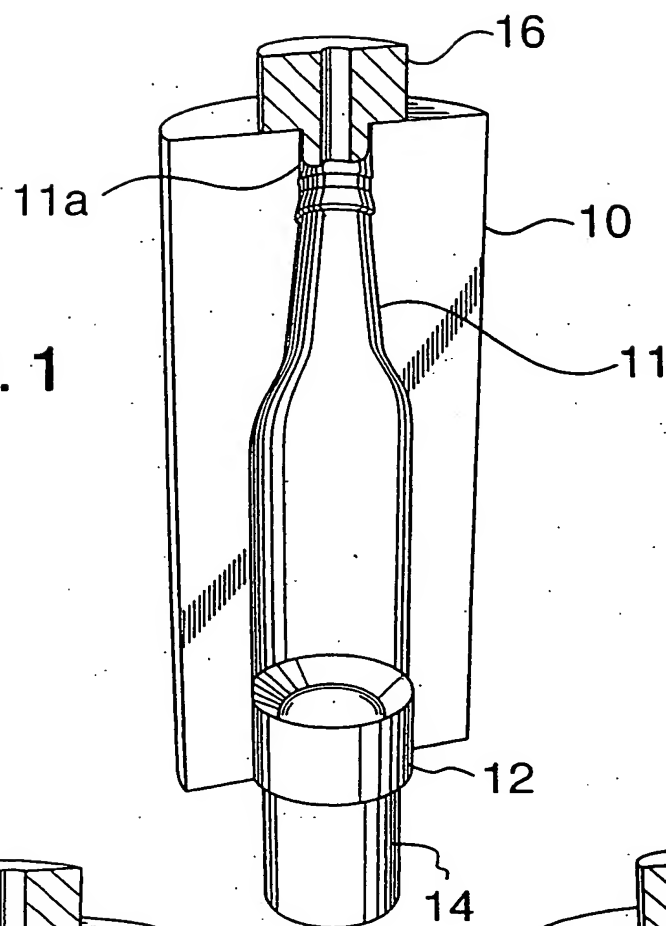




FIG. 1



Hydroforming
Pressure Loading and Ram Displacement

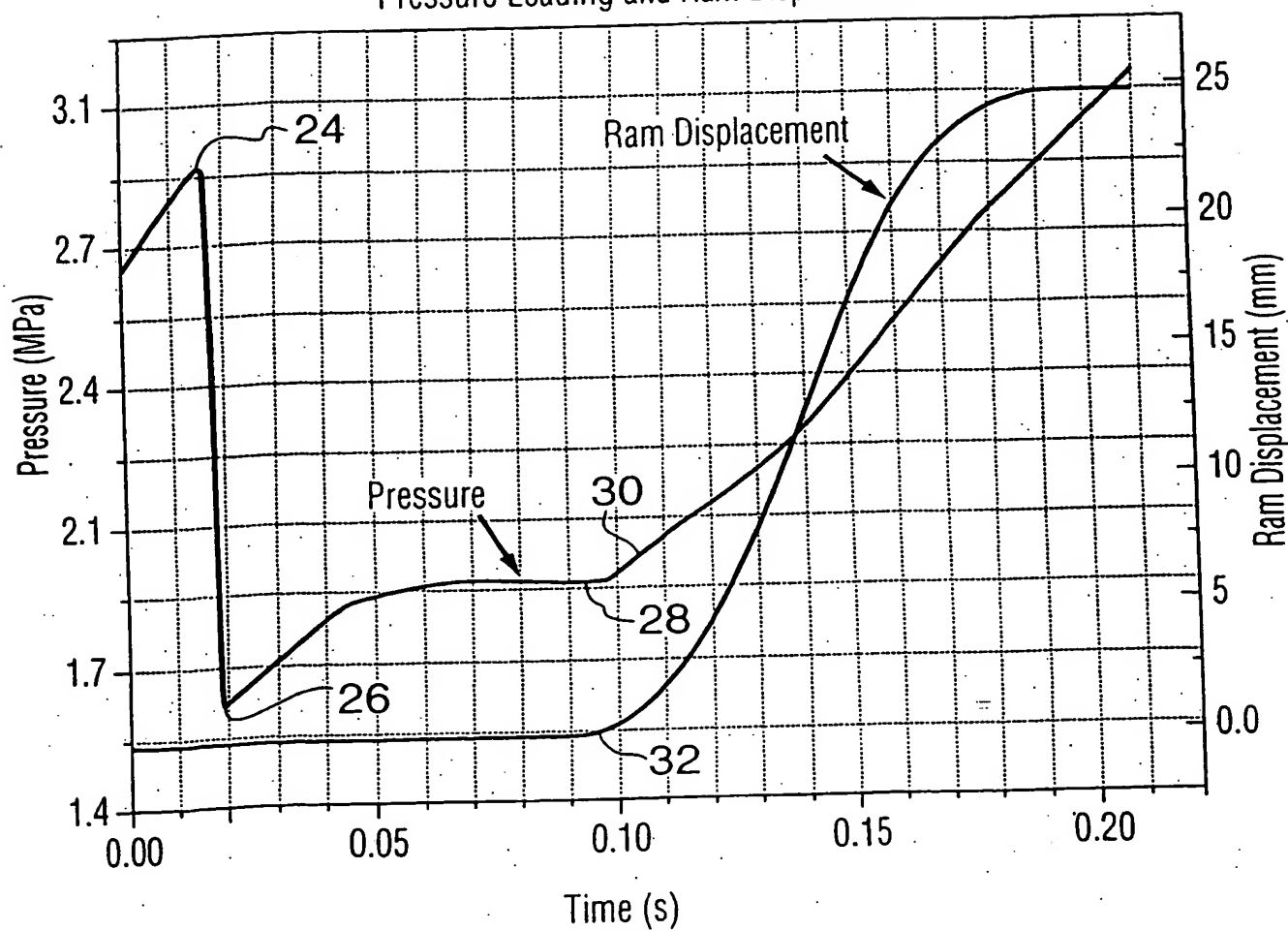
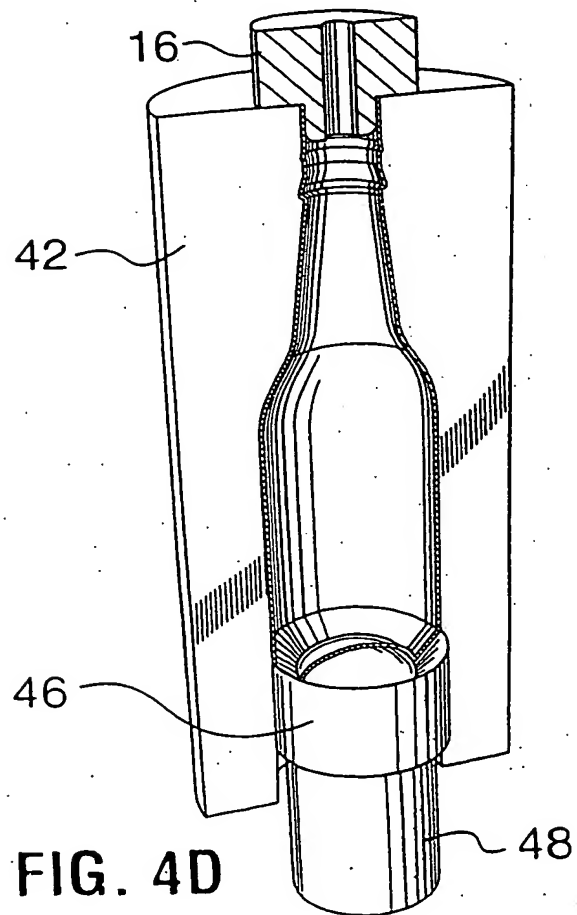
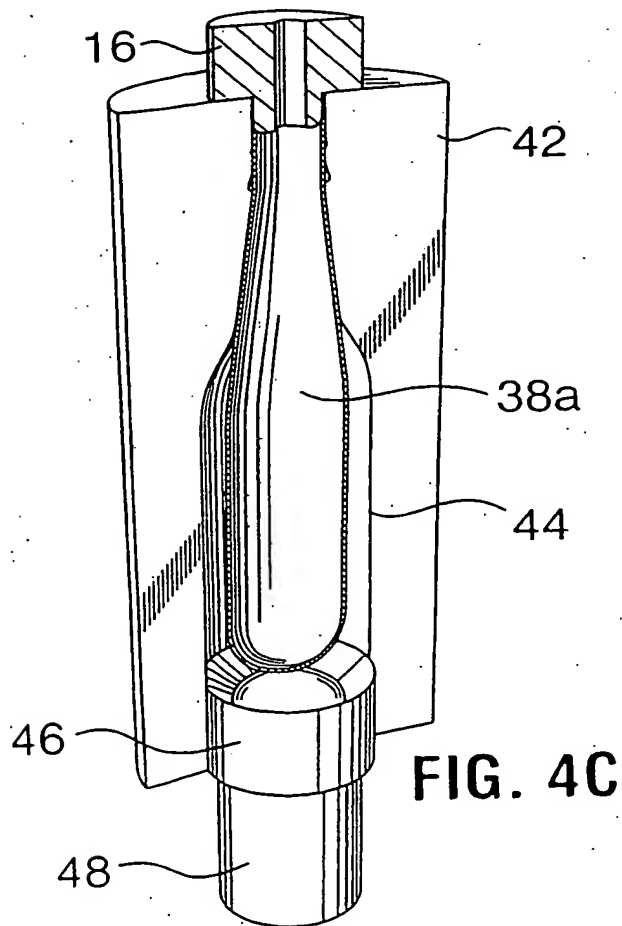
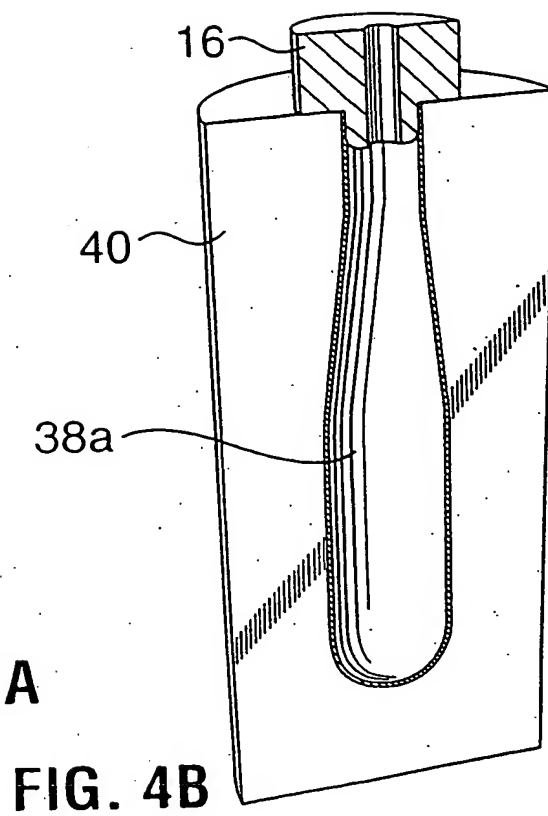
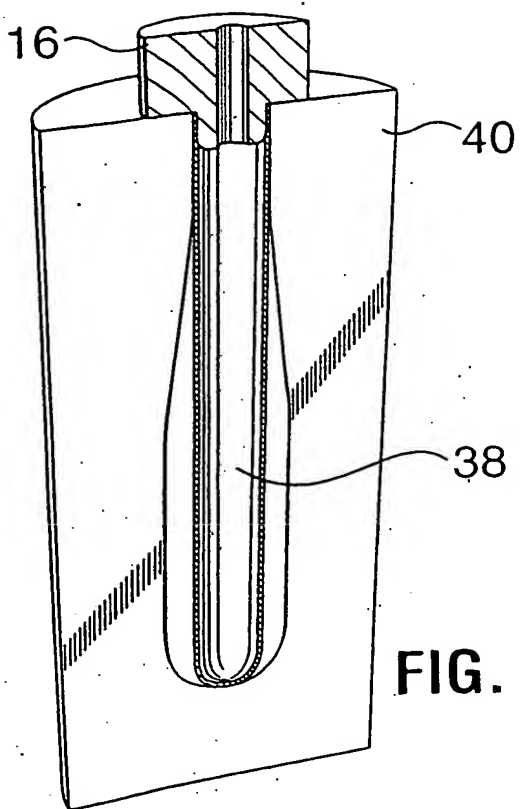


FIG. 3



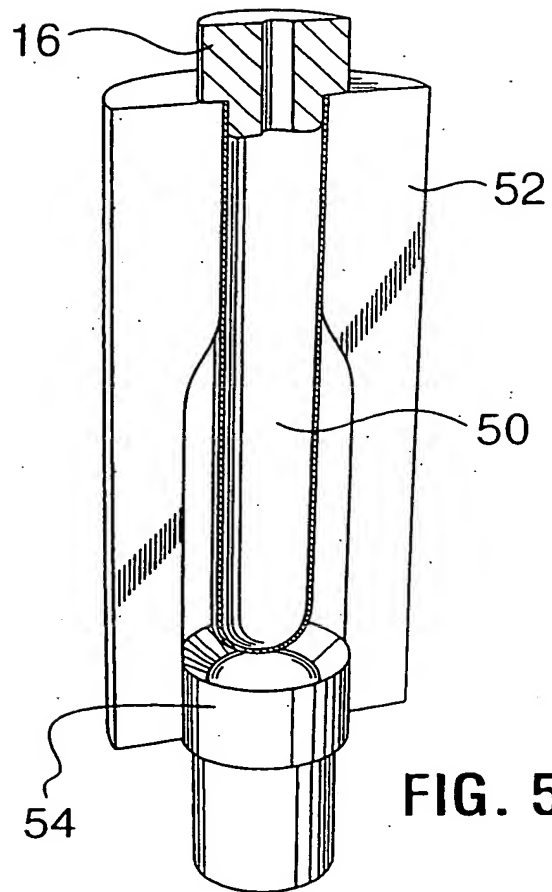


FIG. 5a

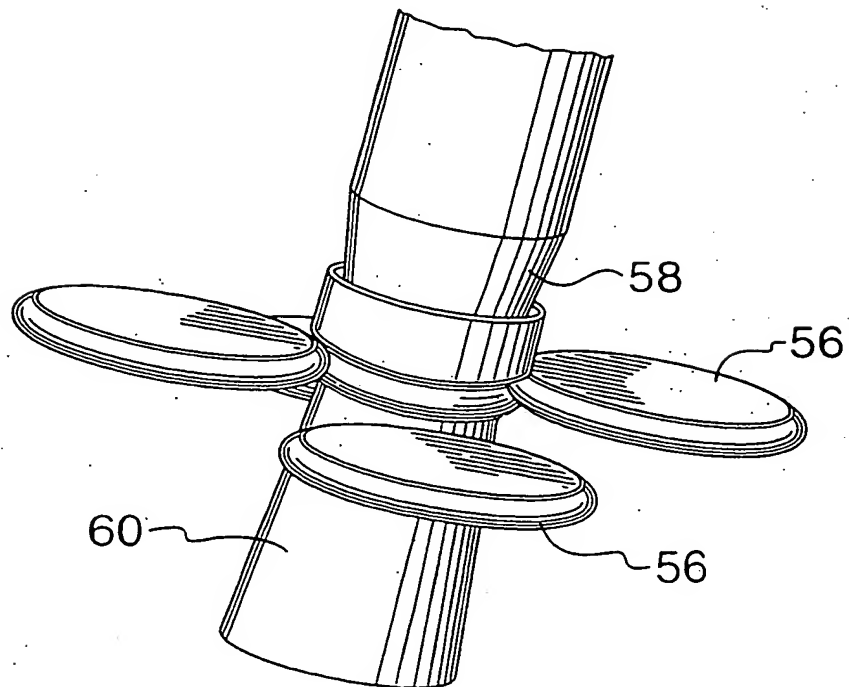


FIG. 5B

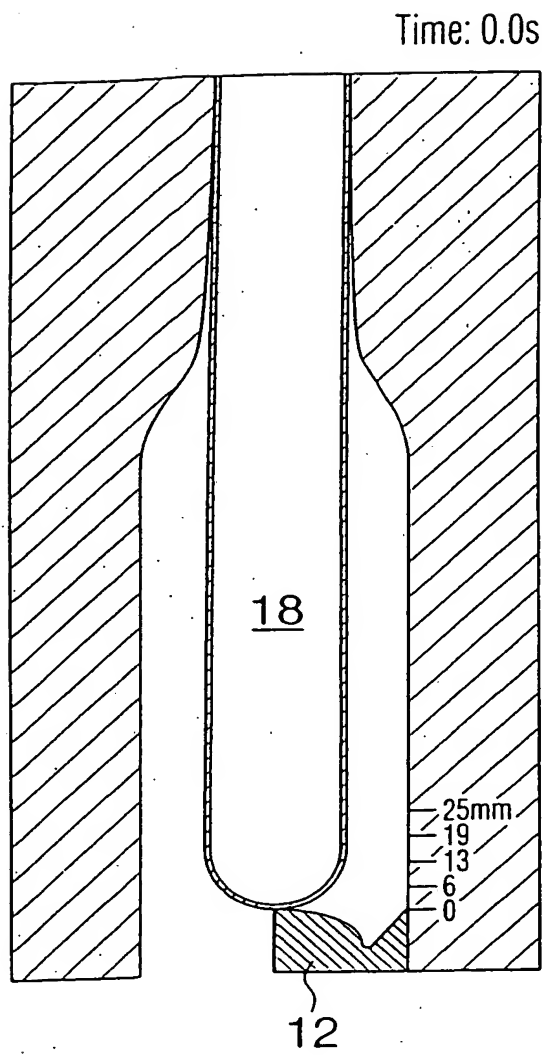


FIG. 6A

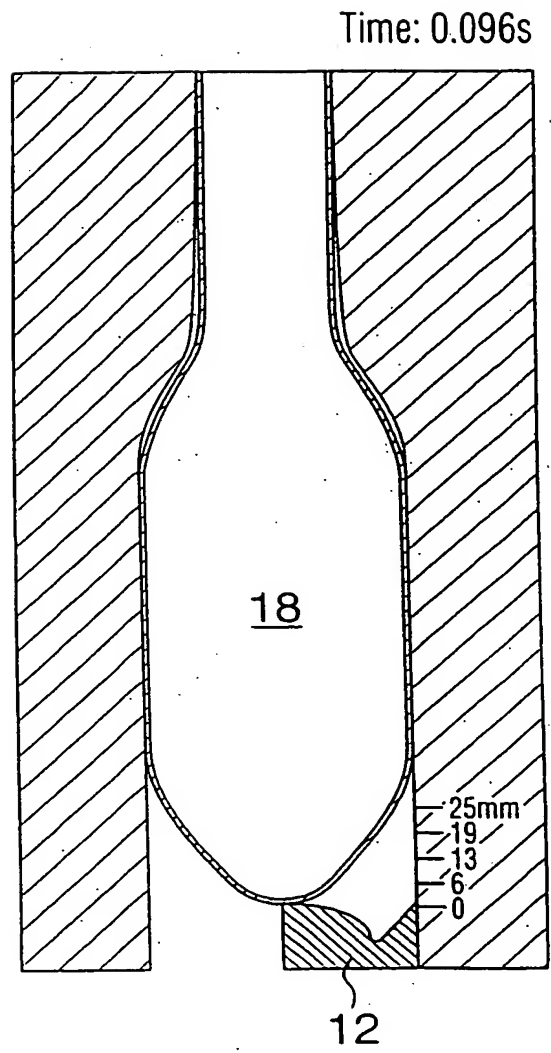


FIG. 6B

Time: 0.134s

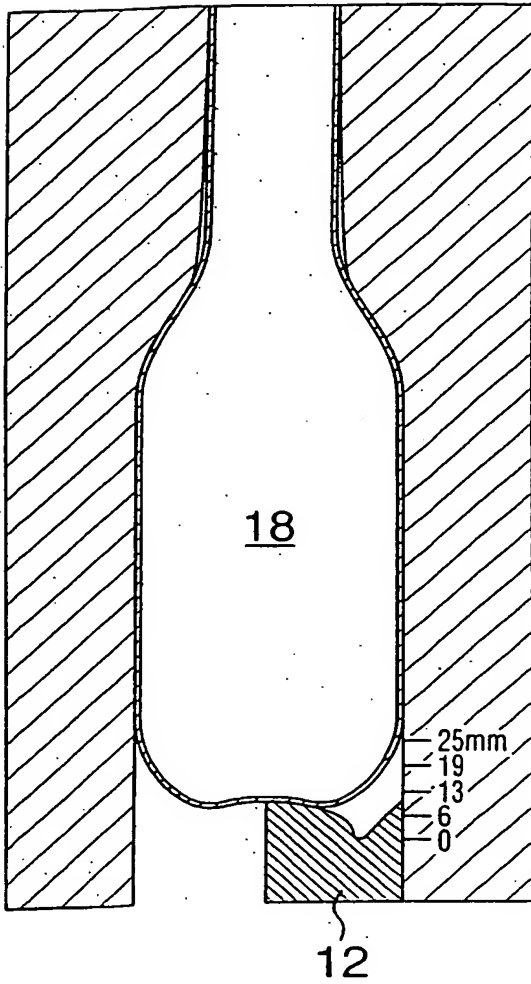


FIG. 6C

Time: 0.21s

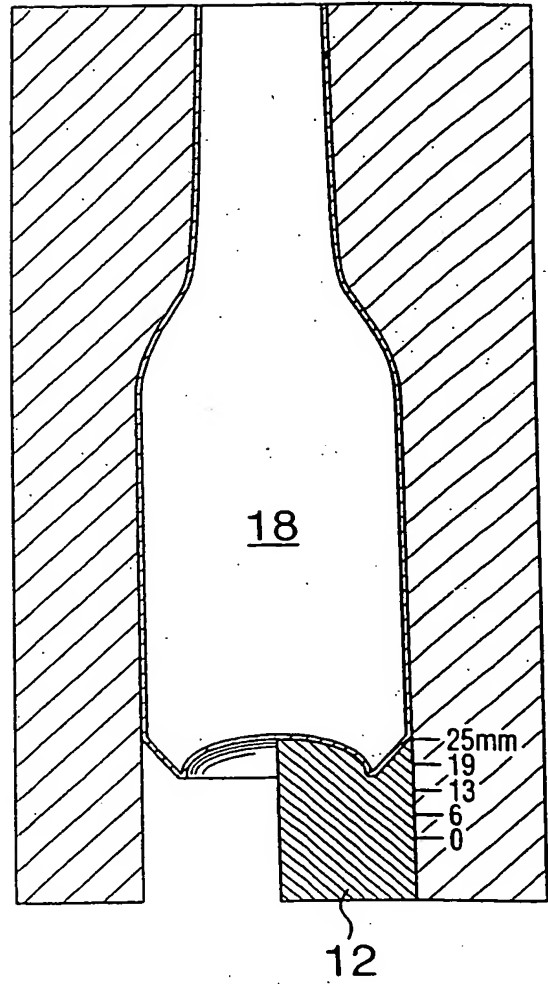
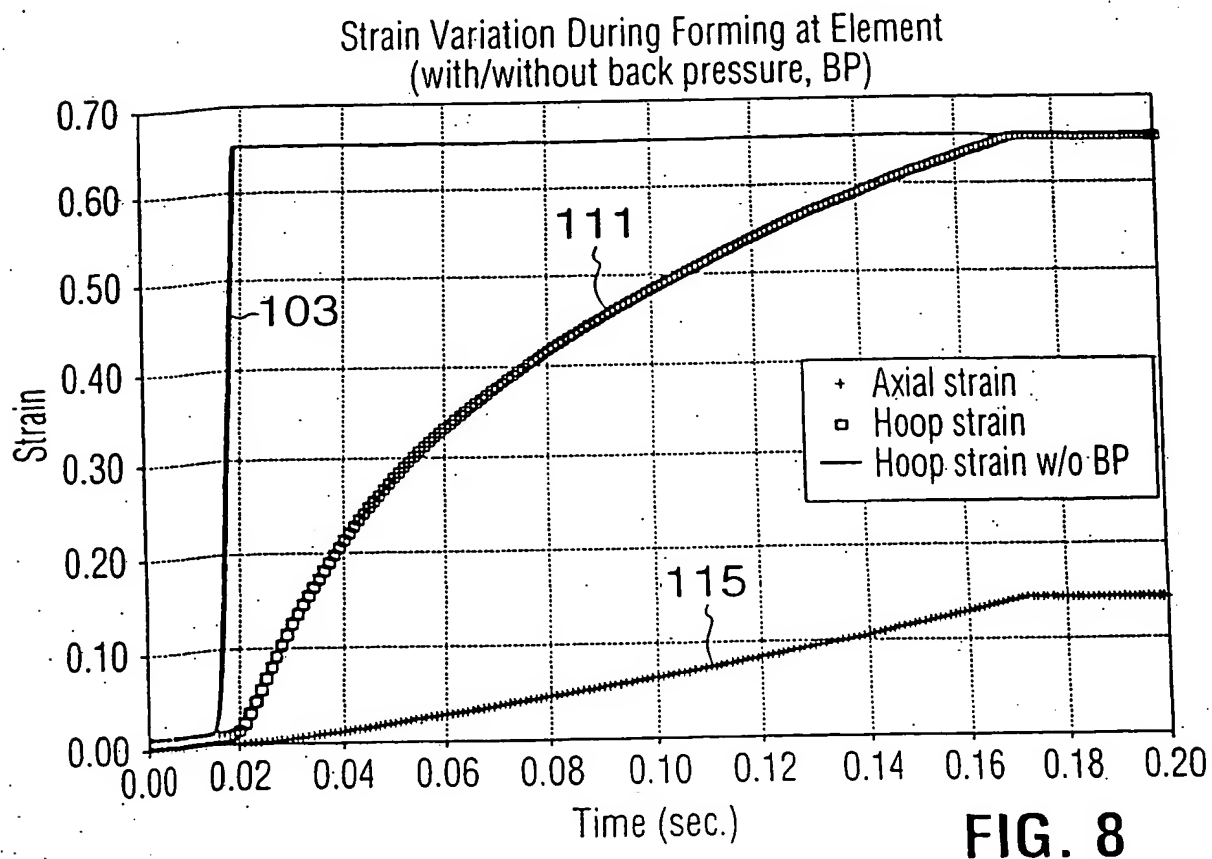
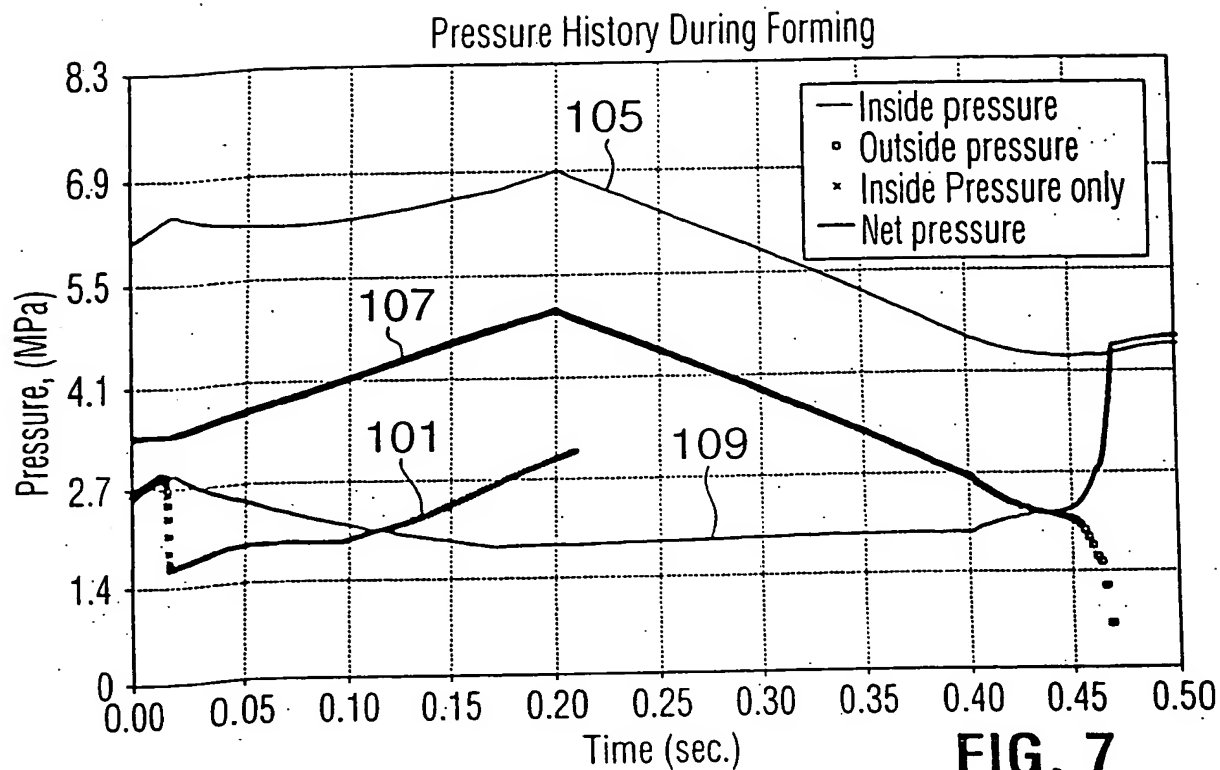
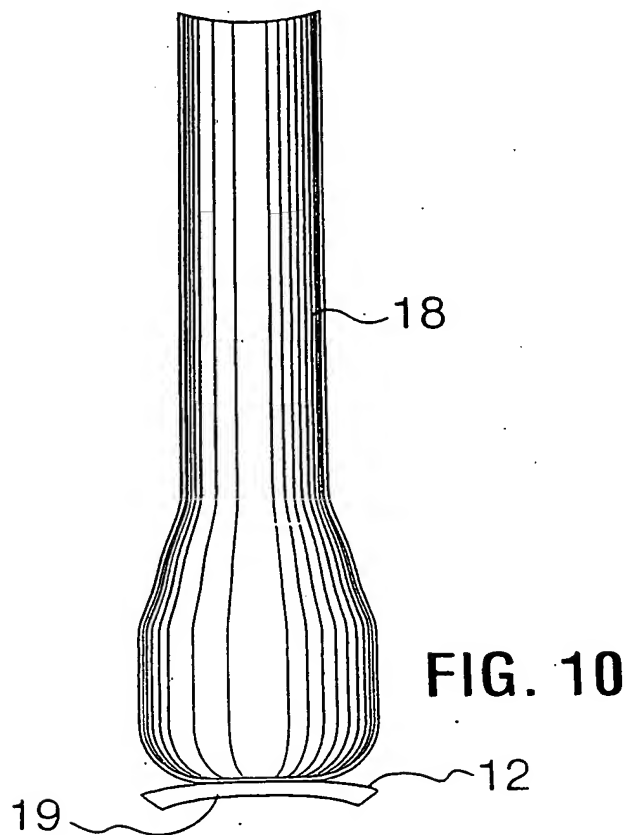
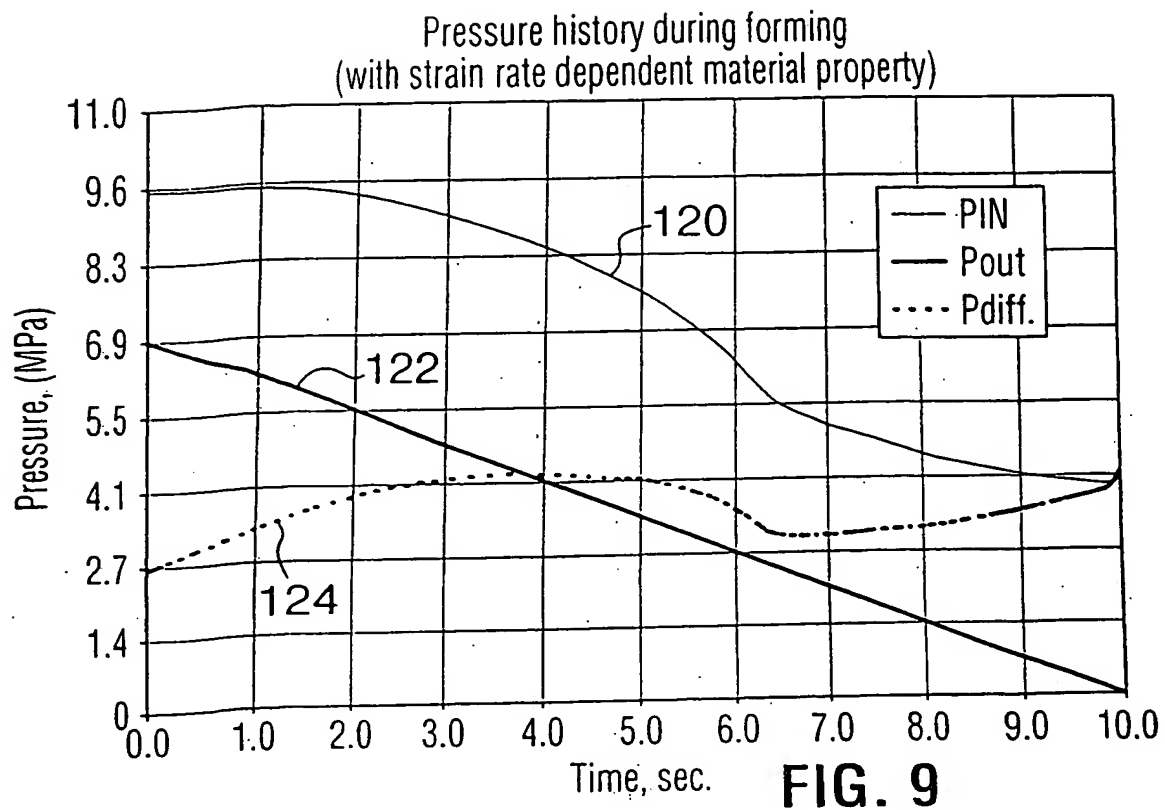


FIG. 6D





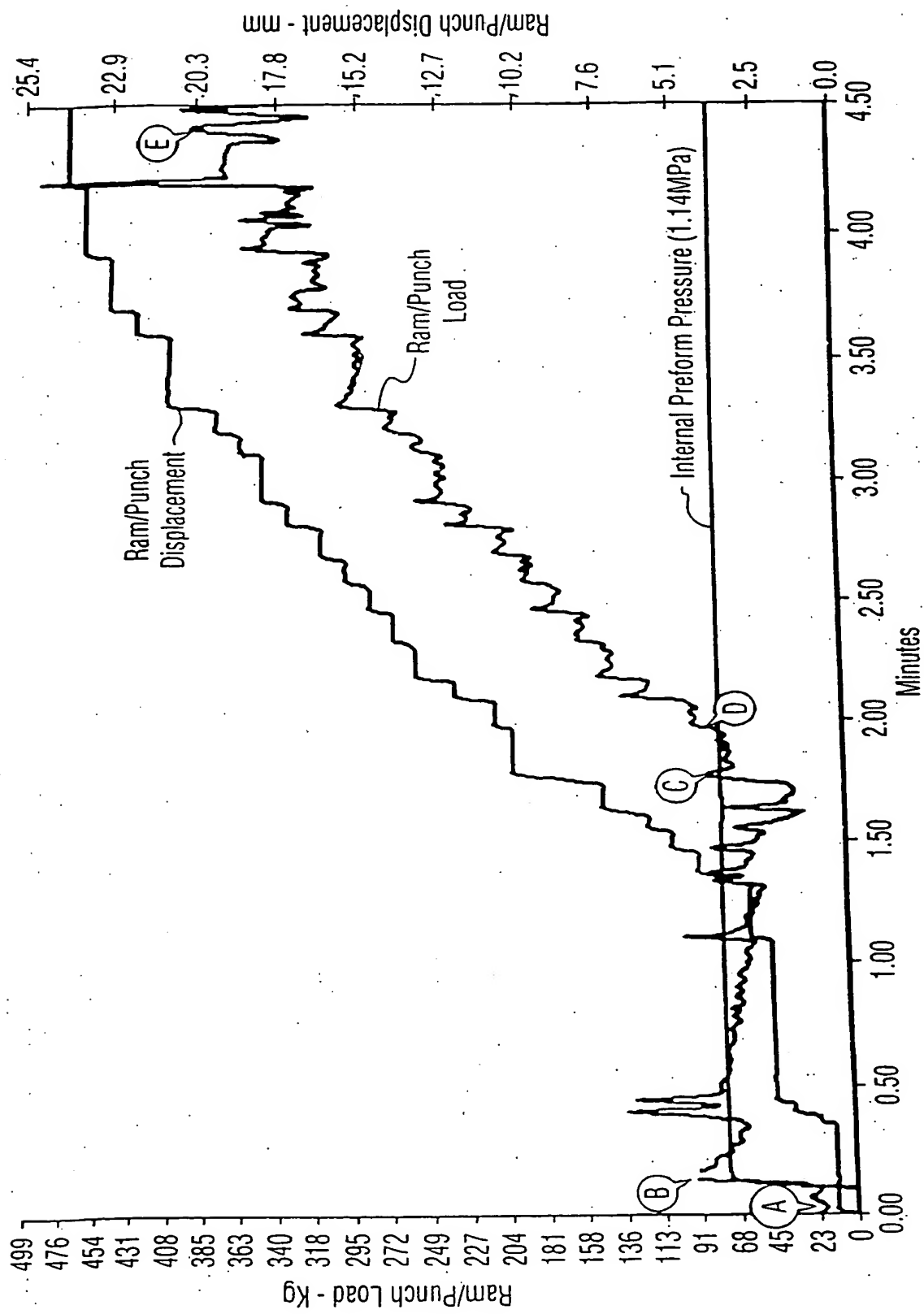


FIG. 11

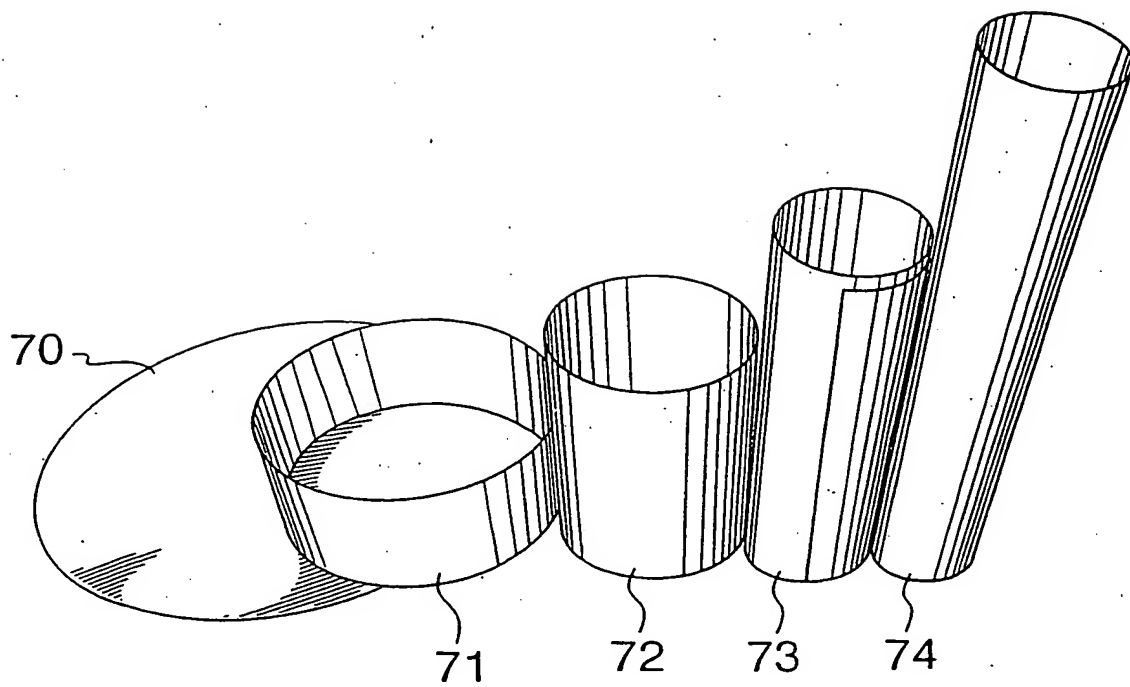


FIG. 12

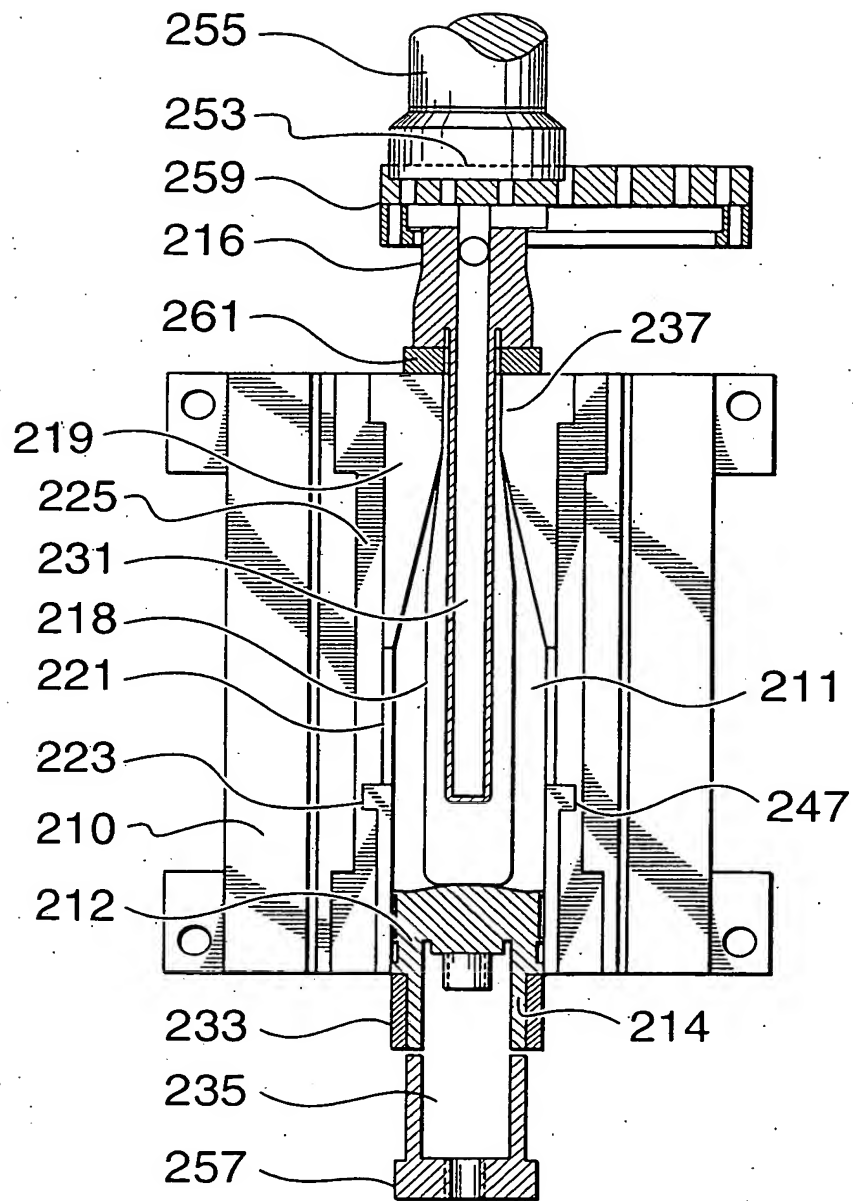


FIG. 13

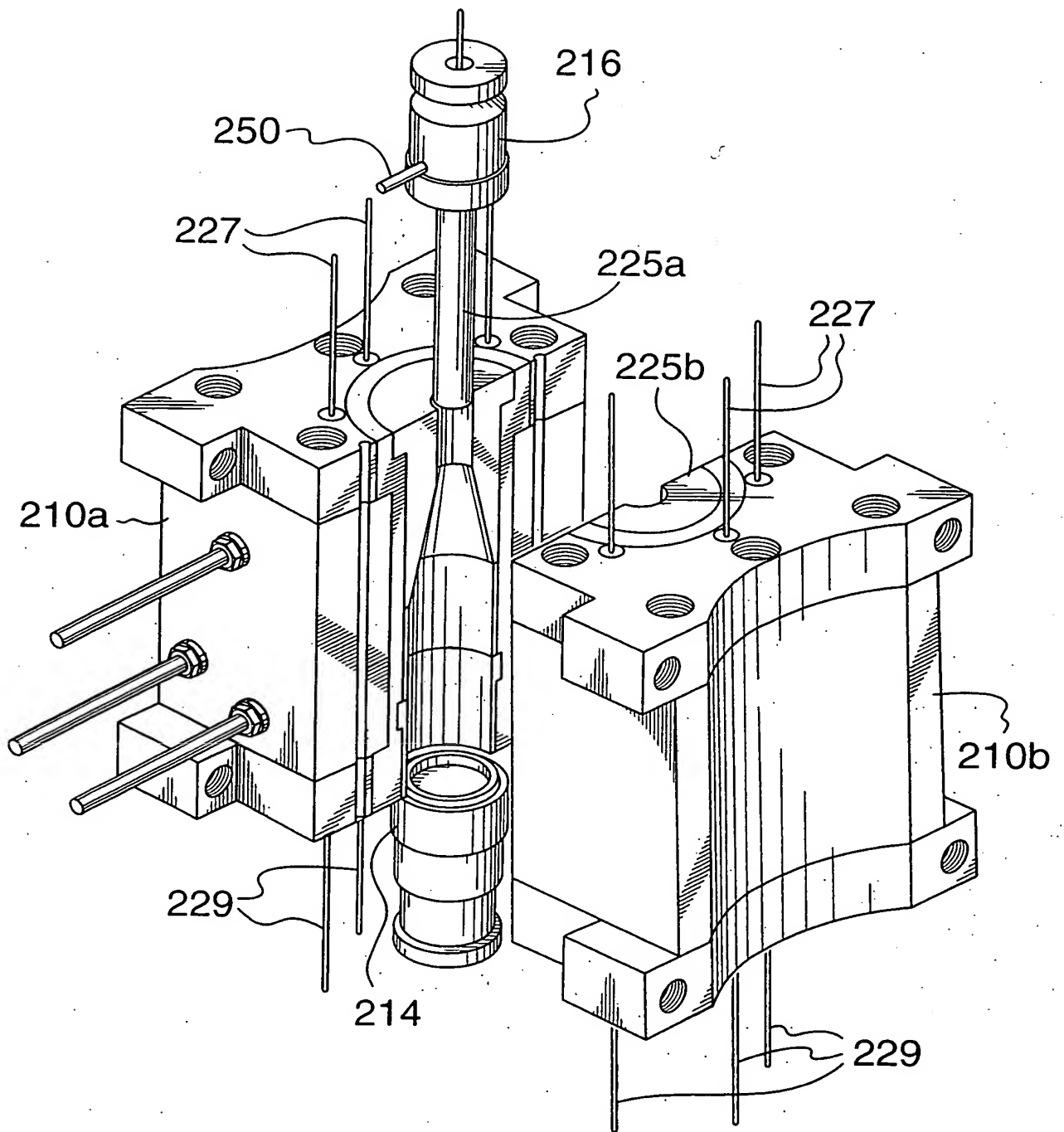


FIG. 14

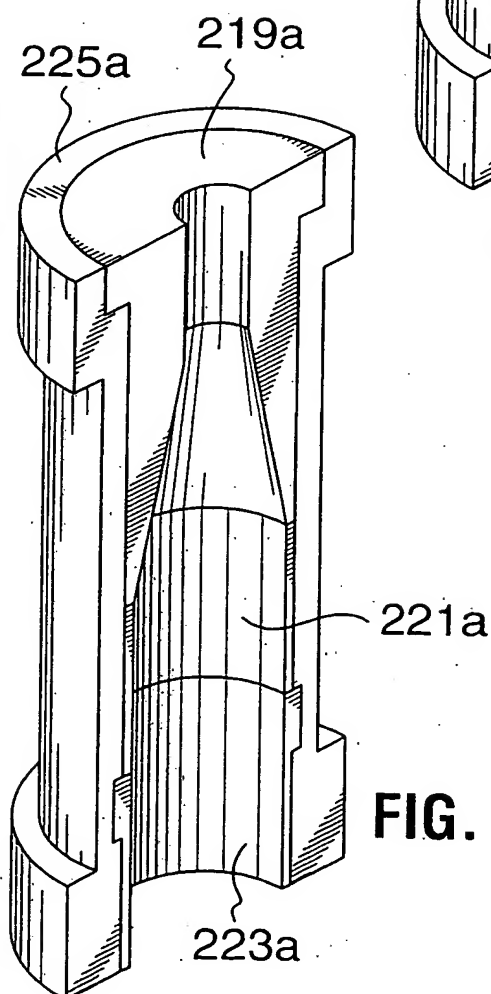
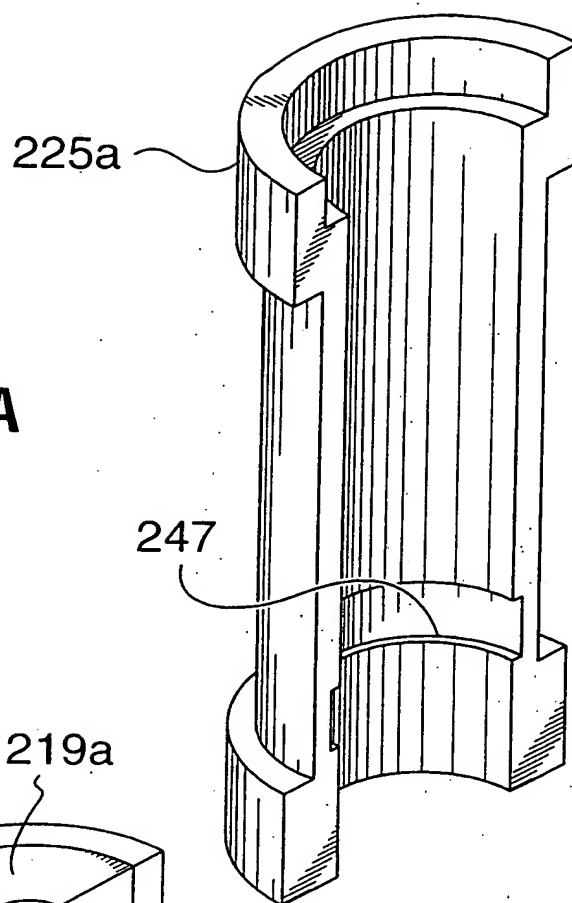
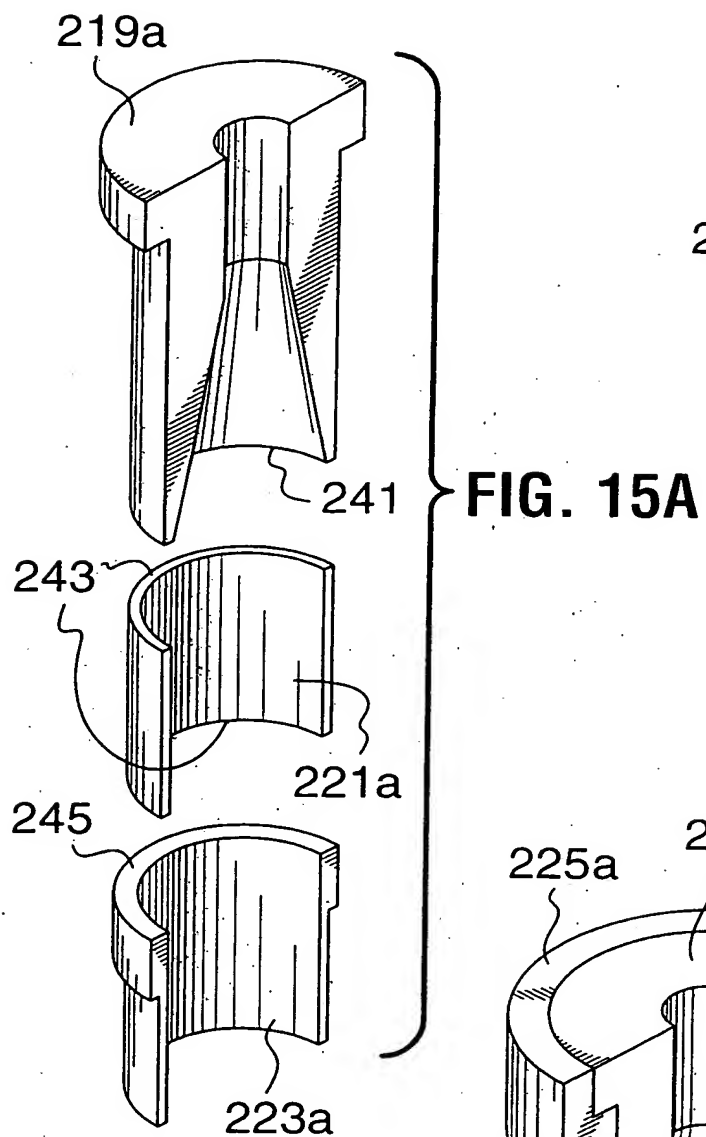


FIG. 15B

FIG. 15C

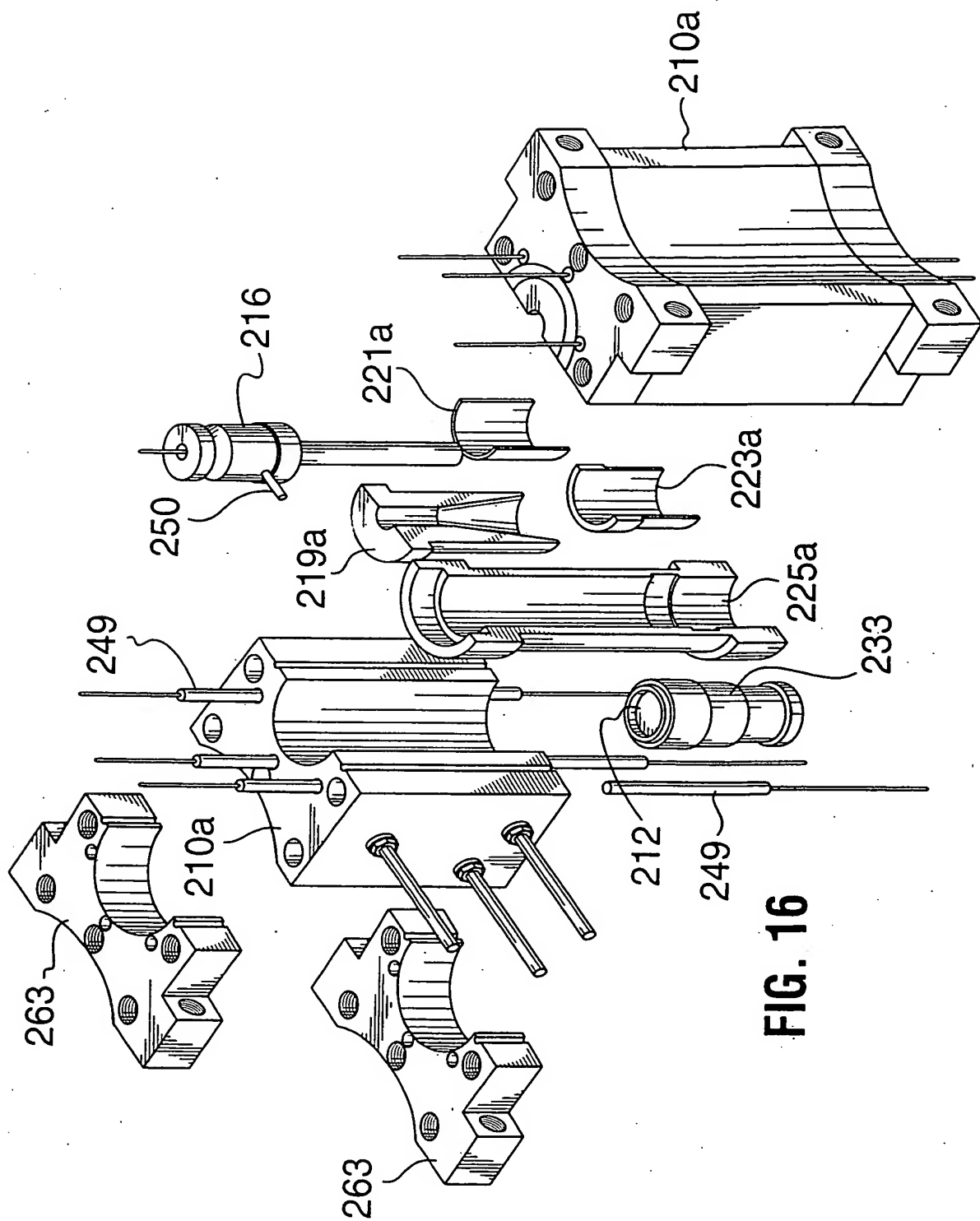


FIG. 16